AMENDMENTS TO THE SPECIFICATION

Please amend the original specification filed on July 16, 2004 by replacing paragraph [0055] with the following paragraph:

Replace:

The upper and the lower connectors 42, 44 are coupled to nodes or interfaces 72, 74, respectively. Interface 72 is in turn coupled to communications converter 112 by a capacitor 116, and interface 74 is likewise coupled to a communications converter 114 by a capacitor 118. Capacitors 116, 118 block direct current but allow signals to pass. The communications converters 112, 114 include circuitry typically used to allow a processor to communicate serially, such as line drivers, a buffer, and a universal receiver/transmitter which converts data from a parallel to serial arrangement and vice versa. The communications converters 112, 114 communicate with a 120. The processor 120 includes memory, e.g., RAM 28' for local storage of data. The processor 120 in turn controls the clamping mechanism via a motor controller or solenoid driver 122, communicates with the onboard sensors via a sensor converter 124, and communicates with the telemetry and control module 21' and/or the main controller 20'.

with:

The upper and the lower connectors 42, 44 are coupled to nodes or interfaces 72, 74, respectively. Interface 72 is in turn coupled to communications converter 112 by a capacitor 116, and interface 74 is likewise coupled to a communications converter 114 by a capacitor 118. Capacitors 116, 118 block direct current but allow signals to pass. The communications converters 112, 114 include circuitry typically used to allow a processor to communicate serially, such as line drivers, a buffer, and a universal receiver/transmitter which converts data from a parallel to serial arrangement and vice versa. The communications converters 112, 114

communicate with a processor 120. The processor 120 includes memory, e.g., RAM 28' for local storage of data. The processor 120 in turn controls the clamping mechanism via a motor controller or solenoid driver 122, communicates with the onboard sensors via a sensor converter 124, and communicates with the telemetry and control module 21' and/or the main controller 20'.